



Purpose

The purpose of the section is to help you learn how to research, select, and develop appropriate algorithms to become a Successful Artificial Intelligence (AI) Engineer

At the end of this lecture, you will learn the following

 How to Iterate on the model development process by fine-tuning hyperparameters





Get into Iterative Development and Optimization

Iterative Development and Optimization

Iterate on the model development process by fine-tuning hyperparameters, experimenting with different architectures, and incorporating domain knowledge.

Use techniques like regularization, dropout, batch normalization, and learning rate scheduling to improve model generalization and performance.

Monitor and analyze model training/validation metrics to diagnose issues and make adjustments accordingly



Start to iterate on the model development process

Iterative Development and Optimization

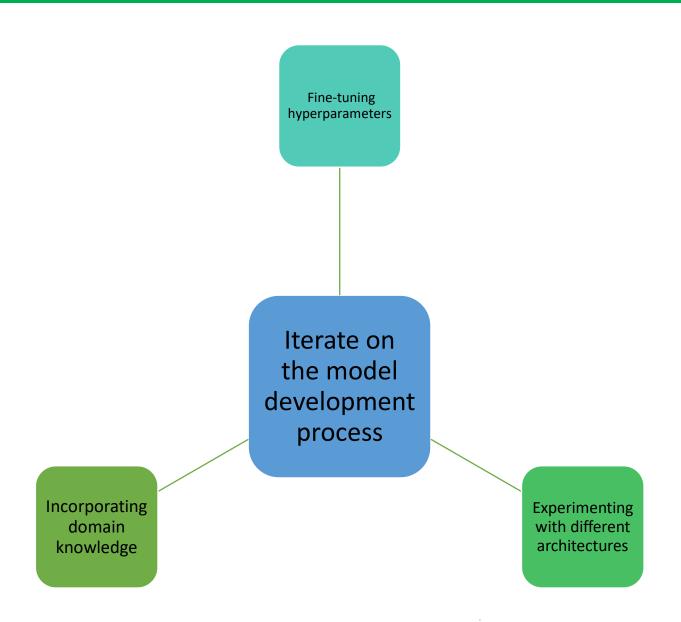
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How to iterate on model development process



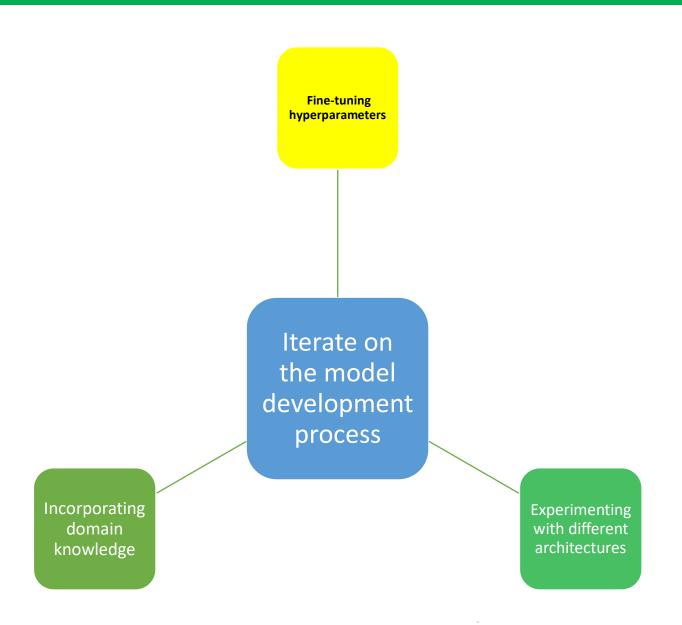




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How to Iterate on the model development process by fine-tuning hyperparameters?







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How to Iterate on the model development process by fine-tuning hyperparameters?

Define Hyperparameters



Select a Validation Strategy



Choose a Hyperparameter Optimization Technique



Initial Hyperparameter Configuration



How to Iterate on the model development process by fine-tuning hyperparameters?

Iterative Optimization



Stopping Criterion



Final Model Selection

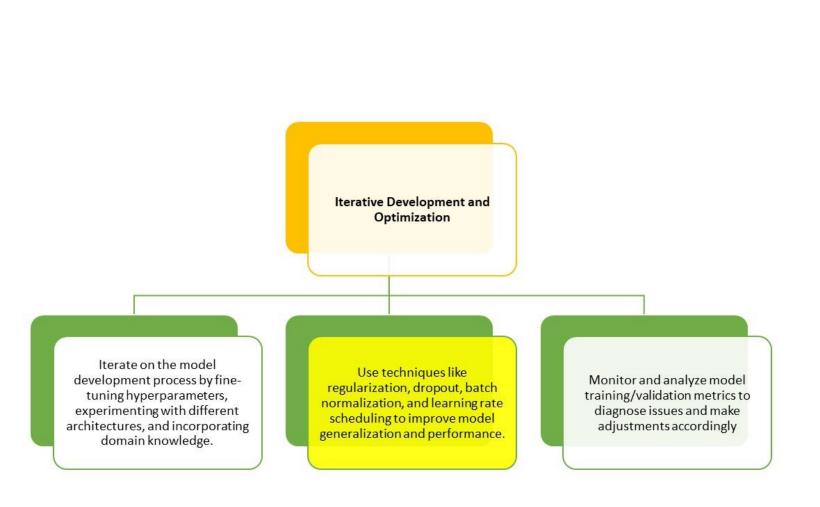


Further Refinement





What is next?







Enrichmentors

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